Warranty

To receive after-Sale service, have the following ready when you contact our branches

1. Name of the product
2. Model number of the product
3. The area of problem
4. Phone number and address at which you can be contacted.

Warranty Card

PRODUCT	
MODEL	
DATE PURCHASED	
WARRANTY PERIOD	
AGENCY ADDRESS	

■ **KOCOM Warranties the original purchaser of this product as follows.**

1) This product is produced under strict quality control and inspection procedures.

2) If this product breaks down during proper use as a result of product defect, KOCOM will repair it within one year from date of purchase free of charge.

3) The following cases will be subject to charge, even during warranty period:

a. Breakdown during transport, or through careless treatment, by consumer.

b. Breakdown cause by unauthorized repair, or system modification.

c. Breakdown caused by natural disaster or power disorder.

This manual is based on the date as shown in the right and specifications are subject to change without notice for quality improvement.

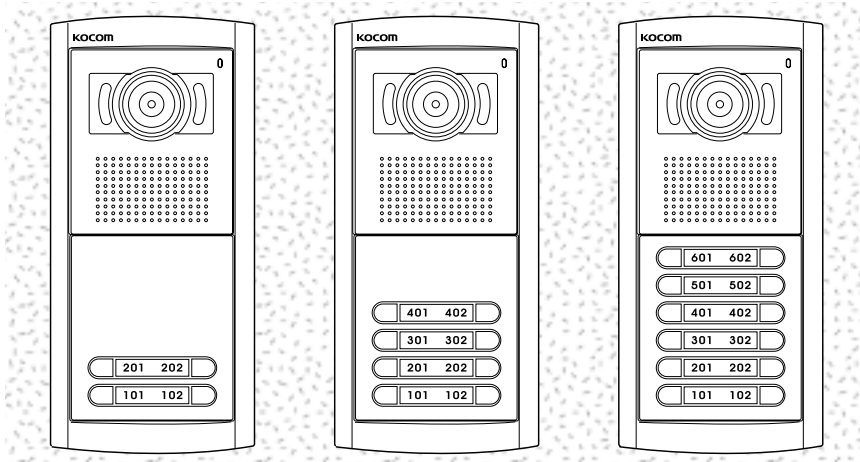
Lobby Phone	08.03

KOCOM

Lobby Phone for Apartment Unit

User's Manual for Operation and Installation

- Automatically opens common gate while communication with house
- Connection with lobby phone up to 3 units
- Keypad backlight function - LED lamp
- White LED function which can identify object at night : For Color Lobby phone
- Infrared ray LED for night detection : For B/W Lobby phone
- Camera angle control
- For B/W Videophone : KLP-104, 108, 112, P104, P108, P112
- For Color Videophone : KLP-C104, C108, C112
- For Audio Doorphone : KDP-104, 108, 112



■ KLP-104 ■ KLP-C104 ■ KLP-108 ■ KLP-C108 ■ KLP-112 ■ KLP-C112

CE

KOCOM CO.,LTD.

Warnings & Cautions for Safety

For safe use, please stick to the following cautions.

- Read this cautions carefully and keep it within easy reach of you.
- For right installation, read this cautions thoroughly. Please install the product according to its specifications.
- This Cautions for Safety may include items that are not contained in specifications of the product that consumer purchases.
- Reading this cautions, use the product in a right manner. For further information, please contact our A/S center.

About Symbol

A variety of symbols are used in this Cautions for Safety and your products to guide you to use products in a right and safe manner and to prevent possible risks for users and other persons and damages to their property. The meaning of each symbol is as follows. After fully aware of meaning of each symbol, read the following cautions.

This symbol means that wrong handling or ignorance of matters that this symbol indicates may cause serious injury or even death of user.

This symbol means that wrong handling or ignorance of matters that this symbol indicates may cause serious injury or property damage of user.

This symbol means the matter that user should not do at any event.

This symbol means that user should follow the instructions.

This symbol means that contents (high voltage, electric shock, warnings, etc.) to which user should pay attention are included.

This symbol means that a certain action is not permitted. Specific points not permitted are depicted around this symbol (for example, in the left drawing, disassembly is not permitted.).

This symbol means instructions or is used to force user to do a certain action. Specific instructions are depicted on the drawing (for example, the left drawing instructs user to detach power plug from an outlet).

Warnings

Warnings for disposal

- Do not throw used-up battery into fire places, which may cause fire and explosion.

Cautions

Cautions for installation

- The relevant law obliges users to have a qualified electrician carry out wiring work for power supply. Work by disqualified persons may cause fire and electric shock.

- Wiring work for communication cables need techniques and experiences. For this type of wiring work, please consult to your local sales agent.
- According to the standard for electric work and other relevant regulations, install communication cables at the place away from power cables. The failure to install cables separately may cause fire, electric shock and communication troubles.

- Do not install the product on rolling table or sloping place. Dropping or falling may cause damage on your product.
- In installation, avoid the place exposed to tremor or shocks, which may cause damages on your product.
- Even if your product is waterproof, do not install it slanted place of water leakage, which may cause a short circuit.

- For the product of wall-mounting type with fixing pegs, keep it safely. Fixing pegs may cause injury of user.

- Install the product of wall-mounting type carefully not to drop from the wall. Dropping due to earthquake or tremors may cause injury of user.

- When installing the product on the wall, consider the thickness and material of the wall. Dropping in use may cause injury of user.

Cautions for Use

- Do not put heavy thing on the product. Dropping or falling due to heavy things on it may cause injury of user.

Cautions for Repairs and Maintenance

- Clean the dust inside the product regularly. Failure to clean the dust for long time may cause fire. For inspection and cleaning of the inside of product, please contact your local sales agent.

- When putting your hands into the inside of equipment, be sure that plug is already detached form an outlet or circuit-breaker is turned off.

- Be careful not to expose the product to benzene, thinner or hot water.
- Do not expose detergent directly to the product in a way of spraying, etc.

- Moving equipment, be sure that the plug is detached from an outlet.
- For equipment whose cables are connected to terminals, please contact your local sales agent or qualified electrician.

- When replacing old fuse with new one, do not directly touch it with bare hands. Use insulated tools or contact A/S center.

Warnings

Cautions for Use

- Do not install the product at bathroom or at the place near a washing machine, or at other humid places. It may cause fire or electric shock.
- Do not install the product at the place near a dresser, humidifier or heater. Also avoid the place exposed to spark, heat or humidity. All of them may cause fire and electric shock.
- Do not install the product at the place exposed to dust, metals and harmful gas such as hydrogen sulfide gas. All of which may cause fire and electric shock.
- Do not install the product at the place exposed to water and chemicals. This may cause fire and electric shock.
- Do not scratch, break or arbitrarily process power cable, which may cause fire and electric shock. Putting a heavy thing on a cable, heating it or pulling it, may cause impairment on it.
- Do not place power cable at the place near heating equipment. It may cause damage of cable's clothing material, which results in fire and electric shock. When detaching plug from an outlet, do not pull power cable.
- Damages on power cable may cause fire and electric shock. When detaching plug from an outlet, please hold the plug tightly.
- Do not detach plug from an outlet with wet hand. It may cause electric shock.

- When using the existing wiring, be sure of the suitability of it to the product and install the product. Failure to this caution may cause fire.

- When moving equipment, be sure that plug is detached from an outlet and communication cable is disconnected. Damage on cables may cause fire.

- Voltage other than prescribed rated voltage is not permitted, which cause fire and electric shock.
- Do not use power terminal of product's main body in other equipment than prescribed ones. It may cause fire and short- circuit.

- In wiring work, use the designated wiring materials. Wiring work using other materials than designated ones may cause fire.

- The equipment without waterproof marking should not be installed at the place water leaks. It may cause electric shock and short circuit.
- When working, be sure that power is disconnected. Failure to disconnect power may cause electric shock.

- Be sure that the power cable is connected and earths according to designated method. Failure to connection and earth may cause fire.

- Do not connect power to other terminals than designated ones. It may cause fire and electric shock.

- When building a system with the product, do not connect the product to other equipment than designated one. It may cause fire.

- When installing A/C switch, do work after removing the substance that may cause short circuit or electric shock.
- Before installing or providing A/S service, be sure that the power is disconnected.

Warnings

Cautions for Use

- This product is not for perfect security solution.
- Do not handle the equipment with wet hand, which may cause electric shock.
- Do not place wet or metallic materials on equipment. Water leakage or intrusion of metallic materials may cause fire and electric shock.
- Do not block the ventilating opening of equipment or put alien substances into it, which may cause fire and electric shock.
- Do not use battery that is not designated or mix new battery with old ones. Insert batteries to fit their polarity. Explosion or leakage of battery may cause fire and injury of user.
- When visitor's image or voice is not displayed on screen or not sounded from speaker, please check his/her identity before opening the door and contact our A/S center.
- Do not use equipment when lighting is expected or strokes. It may cause fire and electric shock.
- Thie product is cannot be used for security.

- Do not open rear cover, cabinet and cover of equipment. It may cause electric shock.

- Do not modify power cable or pull it with excessive strength, which may cause fire and electric shock.
- Do not modify equipment. It may cause fire and electric shock.
- Call signal may cause damage on user's hearing ability.

Cautions for Abnormality

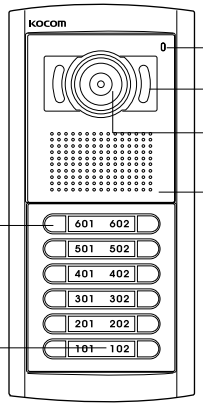
- When power cable is broken (exposure of core or short-circuit), do not fail to replace broken cable with new one. Failure to replace broken power cable may cause fire and electric shock.
- When detecting any abnormalities in equipment (communication is not available, images do not be displayed on screen, calling is not available, or abnormal sound is heard), immediately detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) before requesting repairs to sales agent or A/S center. Keeping connection to power supply may cause fire and electric shock.
- When alien substances go into equipment, immediately detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) before requesting repair to sales agent or A/S center.
- In the case of smoke or smell of unknown origin from equipment, keeping use it may cause fire and electric shock. Detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) and be sure to check no more smoke or smell from equipment before requesting repair to sales agent or A/S center. Since personal repairing work by user may serious accidents, in any case, do not repair equipment with your own hand.
- When dropping equipment or breaking its cabinet, detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) before requesting repair to sales agent or A/S center. Keeping use equipment may cause fire and electric shock.
- Avoid direct exposure to sunlight and store equipment at the place free from dust and high temperature as you can. High temperature of equipment may cause fire and electric shock.

Precautions for Operation

- Keep away from humidifier and stove.
- High temperature and humidity may cause troubles.
- Do not drop this device and avoid strong impact.
- Keep away from devices generating strong magnetic filed (TV, Speaker, etc.)
  (Images can be distorted or blurred as well as mechanical troubles may be caused.)
- When cleaning, do not use wet hand, volatile benzene or paint thinner.
- Keep image clear by cleaning camera window frequently with soft cloths.
- As this device consists of electronic precision components, do not attempt to disassemble.

Component's Name

Model: KLP-112, KLP-C112 as standard

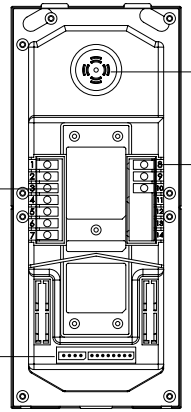


- C-MIC
  Transmits input voices to receiver
- Infrared Ray LED : B/W
  White LED : Color
  Detects and identifies objects at night
- Dial Button: Numbers are assigned to call to each house
- Camera Lens
  Converts recorded images into signals
- Name Indicator
  Shows house numbers
- Speaker
  Outputs voice signals

※ KLP-104, C104, 108 and C108 has same functions except for the number of houses to be called.

- House Main Line Terminals
  Adopt terminal type for easier connection to main house line.

  1: 17V
  2: GND
  3: Voice 1
  4: Voice: 2
  5: Video
  6: Data
  7: Door Lock



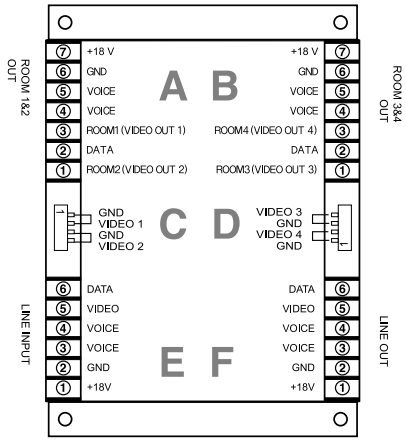
- Camera Angle Controller
  Enables users to easily adjust camera angle by manual
- Door Lock dry contact type
  8. N.O. (Normal Open)
  9. COMMON
  10. N.C. (Normal Close)

- Video Amplifier Connector

(KHU-102P) :
Composed of connector for easier connection to Video amplifier
(4Pin Wire)
(5V/Signal/ GND/Video)

- Door open dry contact type
  1. If the door opener is the type of ON dry contact, please connect it to the Terminal No.8 (N.O.) & 9 (COM.).
  2. If the door opener is the type of OFF dry contact, please connect it to the Terminal No.9 (COM.) & 10 (N.C.).
  3. Additional power supply is necessary in this connection.

■ KVS-104P (Relay) wiring (option)



A. MAIN LINE (+18V, GND, VOICE1, VOICE2, DATA) OUTPUT TO MONITOR IN HOUSE 1, 2.

B. MAIN LINE (+18V, GND, VOICE1, VOICE2, DATA) OUTPUT TO MONITOR IN HOUSE 3, 4.

C. (VIDEO, GND) OUTPUT TO MONITOR IN HOUSE 1, 2.

D. (VIDEO, GND) OUTPUT TO MONITOR IN HOUSE 3, 4.

E. MAIN LINE (5 WIRE) INPUT FROM LOBBY PHONE (COMMON GATE CAMERA) & (VIDEO, GND) INPUT FROM KHU-102P.

F. MAIN LINE (5 WIRE) & (VIDEO, GND) OUTPUT TO THE OTHER KVS-104P IN UPSTAIRS.

Wiring Specifications

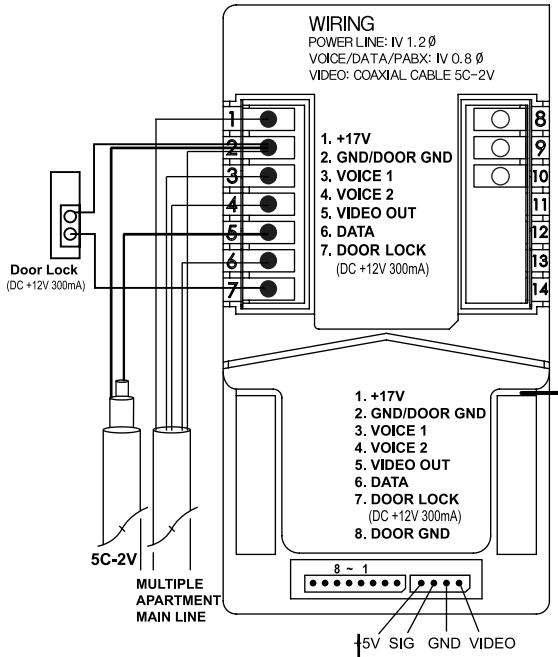
- Main Wiring : Voice 1/ Voice 2/ Data: (3-line) polar wiring, over TIV 0.8mm applicable
  Power(17V/GND) (2-line) polar, over TIV 1.2mm applicable

- For Video, coaxial cable is used : 5C-2V
- KDP-104, 108, 112 are no necessary to connect Video line

Product Specifications

Lobby Phone	**KLP-104/108/112**	**KLP-P104/108/112**	**KLP-C104/108/112**	**KDP-104/108/112** for connection to Doorphone
Input Power	DC 17V ±1V(standby: 1W, Operating: 5W) Common Power Input	Same as left specifications	Same as left specifications	Same as left specifications
Voltage of Internal Operation Power	DC 12.8 V ±1V			
Lobby Phone's Data Protocol	PROTOCOL DATA TX/RX Method			
Communication Method	Hands Free Method (two way)			
Available Time for Call/Image	Calls/images maintains for 30 ± 3 seconds after call Communication with house maintains for 3 minutes ± 5 seconds			
Exterior Material and Color	METAL (Zn , Al) / SILVER			
Dimensions	255(W) X 120(H) X 20(D) mm			
Guaranteed Operating	-10°C ~50°C			
Automatic LED On/Off	Name parts is automatically turned on			
Camera Angle	120°	90° (Pinhole lens)	97°	
Minimum Illumination	0.1 Lux (When IR LED is turned on)		0.1 Lux (When White LED is turned on)	

External Wiring Diagram

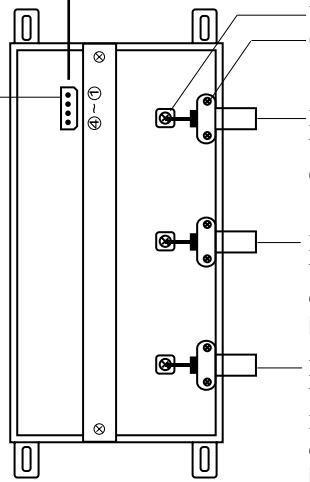


• Door dry contact type
  8. N.O.
  9. COMMON
  10. N.C.

• Door open dry contact type
  1. If the door opener is the type of ON dry contact, please connect it to the Terminal No.8 (N.O.) & 9 (COM.).
  2. If the door opener is the type of OFF dry contact, please connect it to the Terminal No.9 (COM.) & 10 (N.C.)
  3. Additional power supply is necessary in this connection.

※ KDP-104, 108, 112 wiring
No.5 (video out) terminal is not used.

■ KHU-102P
Lobby Video Amplifier



Video Amplifier Connection
Composes of connector for easier connection to Lobby phone.
(1: 5V, 2: Signal, 3: GND, 4: Video)

※ After cutting "4 Pin" connector, long distance (upto 20m) connection between Lobby phone and KHU-102P can be made, using TIV 0.8mm cable.

Video
GND

House Video Output-A
Video output port (A) to house, adopts coaxial cable wiring [coaxial cable-5C2V]

House Video Output-B
Video output port (B) to house, adopts coaxial cable wiring [coaxial cable-5C2V]

Extension Lobby phone Video Input
Video Input part from extended Lobby phone.
coaxial cable wiring
[coaxial cable-5C 2V]

Operational Descriptions

■ Functional Descriptions

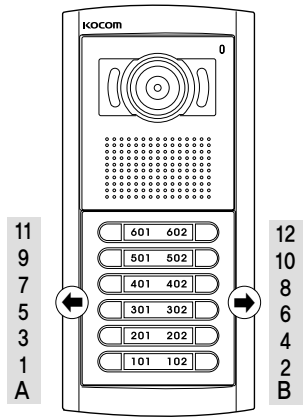
▷ **This product supports the following functions including call to and communication with house.**

a. Call to and communication with house and guard
b. Common gate open
c. Image transmission to house
d. Lobby phone ID setting

These products are only compatible with KIV-102, D102, KIV-212, D212, KCV-802R, D802R, KVM-520 monitor, KIP-603, KDP-603 doorphone or KIP-120 guard master.
If it is used with other product(other company), it might be mal-functioned.

■ Initial Setting

For Common gate pannel (KDP-104/108/112) and Lobby Phone (KLP-104/108/112, KLP-C104/C108/C112, KLP-P104/P108/P112), house (KVM-520 and KIP-603, KIV-102/D102, KIV-212/D212, KCV-802R/D802R) No. setting should be conducted as following instructions.
(A specification preset by internal protocol)



House No. (DIP Switch) Setting for direct button type.

House Setting No.

	Lobby Phone (Column A)	Lobby phone (Column B)	Household monitor setting number
KDP-104	1 (101)		1
KLP-104		2 (102)	2
KLP-P104	3 (201)		3
KLP-C104		4 (202)	4
KDP-108	5 (301)		5
KLP-108		6 (302)	6
KLP-P108	7 (401)		7
KLP-C108		8 (402)	8
KDP-112	9 (501)		9
KLP-112		10 (502)	10
KLP-P112	11(601)		11
KLP-C112		12 (602)	12

(Warning!) House device should be set as described above (Fix house No. type).

※ When user intends to install more lobby phones, user should set each lobby phone ID and each ID should be different from other ID.

■ KLP-104, 108 and 112 (KLP-C104, C108, C112, KDP-104, KDP-108, KDP-112)
: Lobby ID Setting

• How to set lobby ID

Among button No. 1 to 4 on the lobby phone (KLP-104 as standard), if pressing button No. 1 for 8 seconds, the lobby phone is automatically set as lobby phone No. 1.

In same way, user can assign ID to each lobby phone.

e.g.)

For lobby phone A, press button No. 1 -> for 8 seconds -> set as lobby phone No. 1

For lobby phone B, press button No. 2 -> for 8 seconds -> set as lobby phone No. 2

For lobby phone C, press button No. 3 -> for 8 seconds -> set as lobby phone No. 3

※ In case of installing lobbyphone more than 1 pc, each ID of lobbyphone should be registered differently.

▷ **Call to house**

1. Press the house number button on the lobby phone.

If pressing the same house number once more, call is cancelled.

(As separate cancel button is not available on these devices, press the same house number once more to cancel the call).

2. When the house being called is on the line.

In case the house being called is on the line with extended lobby phone or guard, busy sounds(T, T, T, T) comes. And it returns to stand by mode.

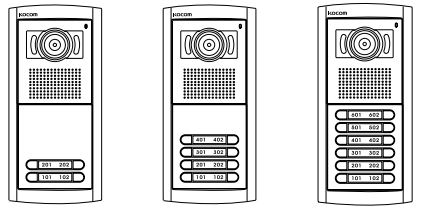
▷ **Door open**

1. If door open button is pressed at the house during the communication with lobby phone. Common gate is opened automatically. (Door lock should be equipped)

Specifications of Direct Button Type Products

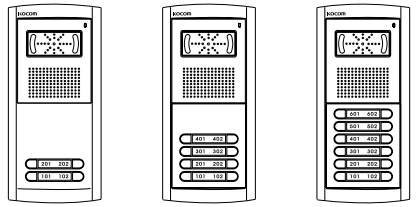
Video phone connecting model

Lens Type



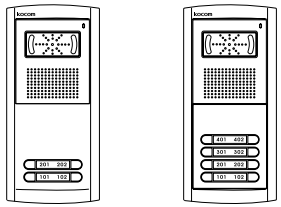
B/W : KLP-104 KLP-108 KLP-112
Color : KLP-C104 KLP-C108 KLP-C112

Pinhole Lens Type

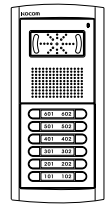


B/W : KLP-P104 KLP-P108 KLP-P112

Audio Doorphone connecting model

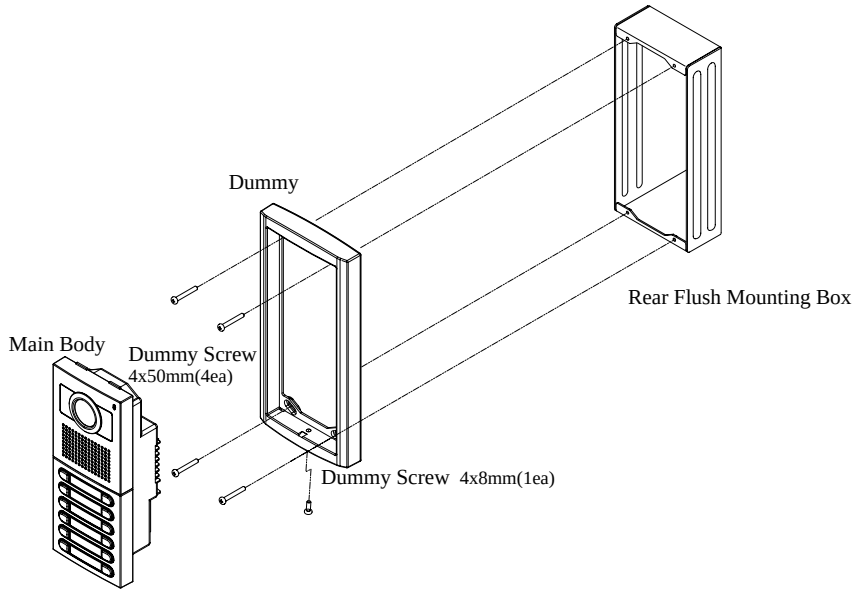


KDP-104 KDP-108



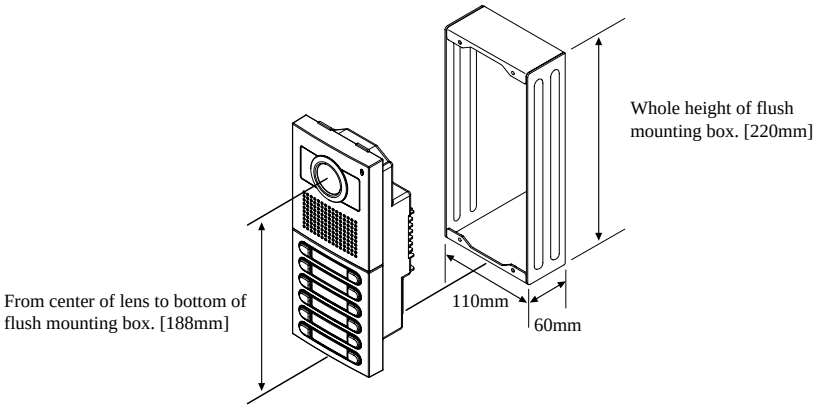
KDP-112

Installation method



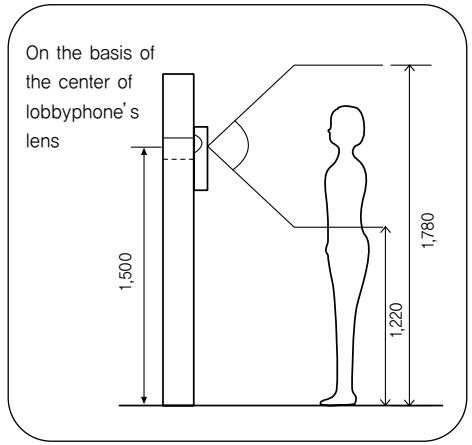
- After placing adaptor 17V and video amplifier near to the Lobbyphone.
- Connect output of adaptor to the power terminal (+17V, GND [polarity]) of lobbyphone.
- Connect '4P' connector from video amplifier KHU-102P to 'WAFER' terminal of lobbyphone. [Polarity].

Reference before installation



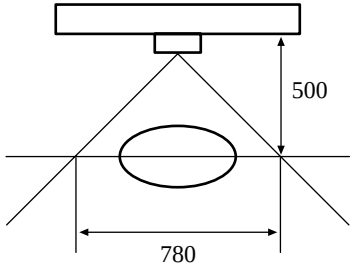
Standard height for installation of lobbyphone

■ Standard installation height of lobbyphone is 1,400~1,450mm from floor to the bottom of flush mounting box.
In case that the installation height of lobbyphone is out of the range (min.1,250mm~1,550mm), it's hard to get proper image, so be careful about the installation height of lobbyphone.



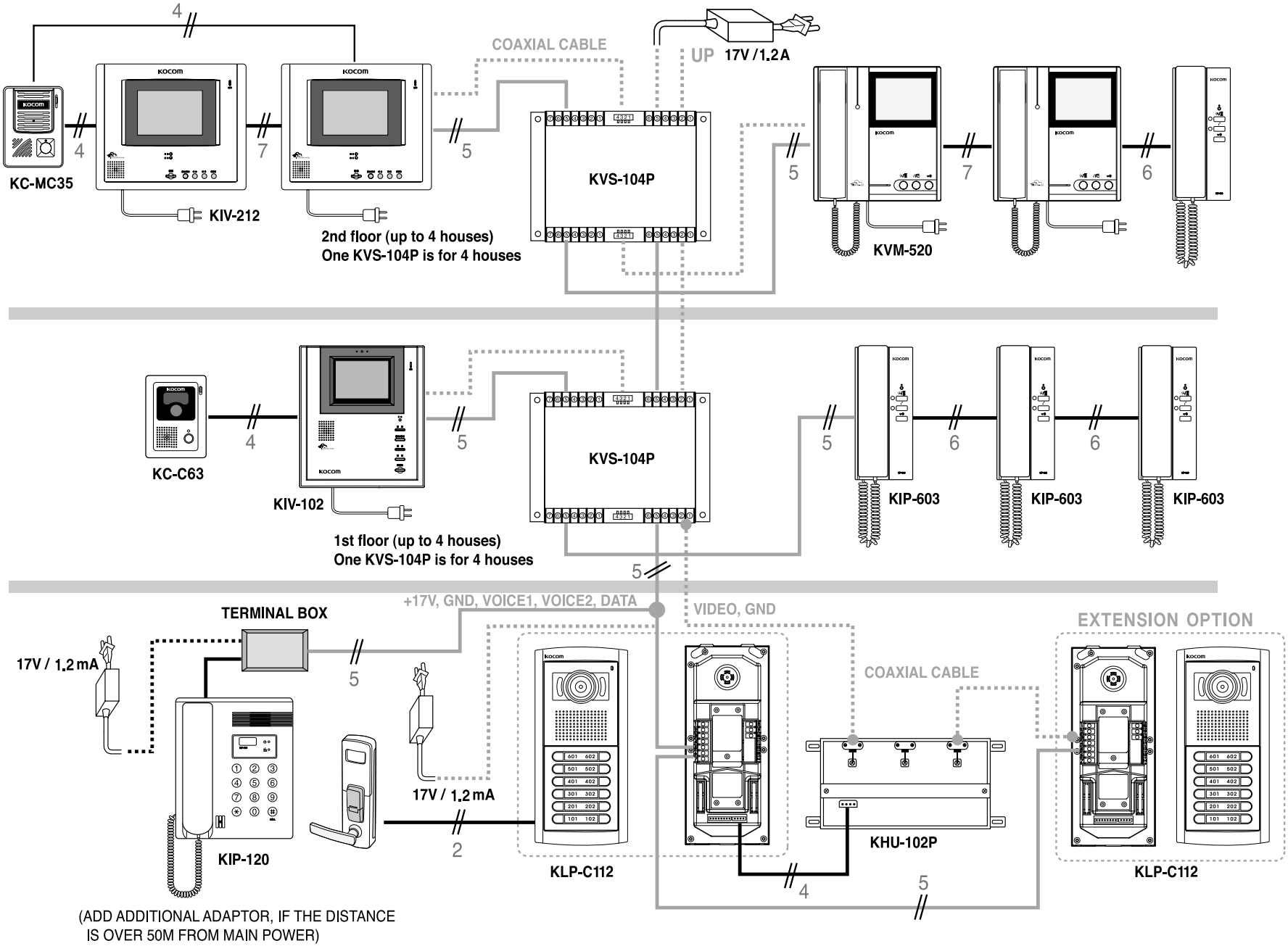
(Unit : mm)

Standard dimensions for installation of lobbyphone



(Unit : mm)

■ For Multi Apartment or Villa Use & it's Connection using KVS-104P (Relay)



■ Video In / Out (Loop Out) Connection without KVS-104P (Relay)